

Notice of Allowability

Application No.

09/924,490

Applicant(s)

WOLLASTON ET AL.

Examiner

Art Unit

Robert P. Swiatek

3643

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 25 Feb. 2005; telephone interview of 7 Feb. 2007.
2. ☒ The allowed claim(s) is/are 16,20,32,33,40,42-49,51,53 and 55-65.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☒ Certified copies of the priority documents have been received in Application No. 09/212,569.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 2-22-07.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Robert P. Swiatek
ROBERT P. SWIATEK
PRIMARY EXAMINER
ART UNIT 3643

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicants, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Stanley C. Spooner on 7 February 2007.

The application has been amended as follows: In claim 16, line 2, "thickness" has been changed to -thicknesses-, in line 3, the phrase "material varies across the weld joint" has been changed to -materials being joined have different cross sections-; in claim 40, line 3, the second occurrence of "the component" has been deleted, in line 4, the words -being joined- have been inserted after "material."

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The claims in this application have been allowed because the prior art does not disclose, *inter alia*, (1) a structural airframe component including at least one friction stir butt welded joint, in which the thicknesses of the component materials being joined have different cross sections or (2) a structural airframe component including at least one friction stir butt welded joint wherein, in the region of a butt welded joint, the component is double curvature in form in which the thickness of material being joined varies across the weld joint. It is the intent of the claims in both the above instances to

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recite patentable novelty as encompassing differences in component material thicknesses on each side of the weld joint but not including minute thickness variations within the joint itself induced by the butt welding process.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The references to Holt et al. (US 5,713,507) and Aota et al. (US 6,581,819 B1) have been cited to provide additional example of friction stir welding processes.

This case is being passed to issue with allowed claims 16, 42, 55, 44, 58, 47, 49, 65, 62, 51, 20, 56, 32, 33, 63, 60, 40, 53, 43, 57, 45, 59, 46, 48, 64, 61, renumbered as claims 1-26.

RPS: 0571/272-6894
22 February 2007

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ART UNIT 323 3643